



COFC  
Docket No.: C0989.70017US00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Chan et al.  
Serial No.: 09/875779  
Confirmation No.: 6905  
Filed: June 6, 2001  
Patent No.: 6927065 B2  
For: METHODS AND APPARATUS FOR CHARACTERIZATION OF  
SINGLE POLYMERS  
Examiner: Jan M. Ludlow  
Art Unit: 1743

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Dated: Aug 15, 2005

  
Nicole M. Hawes

TRANSMITTAL

Attention: Certificate of Correction Branch  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

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AUG 24 2005

Dear Sir:

Transmitted herewith are the following documents:

- Request for Certificate of Correction
- Certificate of Correction
- Page of USPN 6,927,065 B2 with error marked in red ink.
- Return Receipt Postcard

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If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (617) 646-8000, Boston, Massachusetts.

A check is not enclosed. If any fees are required, the Commissioner is hereby authorized to charge Deposit Account No. 23/2825. A duplicate of this sheet is enclosed.

Respectfully submitted,



Maria A. Trevisan, Reg. No. 48,207  
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Dated: August 15, 2005  
xddd

AUG 26 2005



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Dated:

Aug 15, 2005

  
Nicole M. Hawes

**REQUEST FOR CERTIFICATE OF CORRECTION  
PURSUANT TO 37 CFR 1.322**

Attention: Certificate of Correction Branch  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

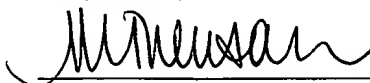
Dear Sir:

Applicant respectfully requests the correction of an error in claim 8 found in the printing of US 6,927,065 B2. The error in claim 8 is due to a PTO printing error, and therefore no fee is due. Correction of this error does not constitute new matter nor does it affect the scope of the claim.

Applicant encloses herewith a copy of the error-containing page from US 6,927,065 B2, with the error marked in red ink.

Applicant respectfully requests a Certificate of Correction for the error outlined herein.

Respectfully submitted,



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xnddx

AUG 26 2005

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : US 6,927,065 B2

DATED : August 9, 2005

INVENTOR(S): Chan et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In column 21, claim 8, line 2, "tiwe" should read -- time --.

MAILING ADDRESS OF SENDER:

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PATENT NO. US 6,927,065 B2

21 ~~time~~

determining the time interval between detection of the leading-edge-rise-time in the first signal amplitude profile and the leading-edge-rise-time in the second signal amplitude profile; and

dividing the predetermined distance between the detection zones by the time interval.

9. The method of claim 1 wherein the detectable region is intrinsically detectable.

10. The method of claim 1 wherein the detectable region is extrinsically detectable.

11. The method of claim 1 wherein the detectable region is detected by measurement of a physical quantity selected from a group comprising of electromagnetic radiation, electrical conductance, thermal conductance, and radioactivity.

12. The method of claim 1 wherein the detectable region is detected by direct or indirect measurement of fluorescent radiation.

13. A method for determining the length of an elongated polymer, the method comprising:

defining a detectable region along the entire length of the polymer;

causing relative movement of the elongated polymer through first and second detection zones, the zones being linearly spaced apart by a predetermined distance;

measuring a time interval between detection of the elongated polymer at the first detection zone and detection of the elongated polymer at the second detection zone;

dividing the predetermined distance between the first and second detection zones by the time interval of step c) to determine the velocity of the polymer;

measuring, at one of the detection zones, a time interval during which the polymer is detected; and

multiplying the velocity of step d) by the time interval of step e) to determine the length of the elongated polymer.

14. A method for determining the distance between first and second landmarks on an elongated polymer, the method comprising:

providing first and second landmarks on an elongated polymer;

causing relative movement of the elongated polymer through first and second detection zones, the zones being linearly spaced apart by a predetermined distance, to cause detection of the first and second landmarks at the first detection zone and detection of the first and second landmarks at the second detection zone;

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measuring the time interval between detection of one landmark at the first detection zone and detection of that same landmark at the second detection zone;

dividing the predetermined distance between the first and second detection zones by the time interval of step c) to determine the velocity of the polymer;

measuring the time interval between detection of the first landmark at one detection zone and detection of the second landmark at that same detection zone; and

multiplying the velocity of step d) by the time interval of step e) to determine the distance between the first and second landmarks.

15. The method of claim 1, wherein the elongated polymer comprises an elongated DNA molecule.

16. The method of claim 13, wherein the elongated polymer comprises an elongated DNA molecule.

17. The method of claim 14, wherein the elongated polymer comprises an elongated DNA molecule.

18. The method of claim 1, wherein the elongated polymer includes fluorescent labels, and further wherein the measurements are measurements of fluorescence intensity.

19. The method of claim 13, wherein the elongated polymer includes fluorescent labels, and further wherein detection of the elongated polymer comprises detection of fluorescent energy.

20. The method of claim 14, wherein each of the landmarks comprises a fluorescent label, and further wherein detection of the landmarks comprises detection of fluorescent energy.

21. The method of claim 20, wherein the first landmark is labeled with a first fluorescent tag and the second landmark is labeled with a second fluorescent tag, and further wherein the first and second fluorescent tags emit fluorescent energy at different and distinguishable wavelengths.

22. The method of claim 1, wherein the detection zones are positioned along an elongation channel through which the polymer is caused to travel.

23. The method of claim 13, wherein the detection zones are positioned along an elongation channel through which the polymer is caused to travel.

24. The method of claim 14, wherein the detection zones are positioned along an elongation channel through which the polymer is caused to travel.

\* \* \* \* \*